**ATHS FC – Math Department Al Ain**

**Assignment 2 (**Term I**)-Grade 11 Regular**

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| **Section** |  | **Due Date** | **Oct 1st, 2014** |
| **Name** |  | **Lesson** | **12.9 Inverse Trigonometric Functions**  **13.1 Trigonometric Identities** |
| **ID** |  | **Marks** | **/5** |

**Find each value. Write angle measures in degrees and radians.**

**1.** arcsin 1 **2.**  **3.**

**Find each value. Round to the nearest hundredth if necessary.**

**4.** tan **5.** sin **6.** cos

**Solve each equation. Round to the nearest tenth if necessary.**

**7.**  **8.**  **9.**

**Find the exact value of each expression if 0° < *θ* < 90°.**

**10.** . **11.** .

**Find the exact value of each expression if 180° < *θ* < 270°.**

**12.** If sin *θ* = – , find sec *θ*. **13.** If csc *θ* = , find cot *θ*.

**Find the exact value of each expression if 270° < *θ* < 360°.**

**14.** If cos *θ* = , find cot *θ*. **15.** If csc *θ* = –8, find sec *θ*.

**Simplify each expression.**

**16.** **17.**

**18.** – **19.**  *θ*  *θ* + *θ*